



Neighborhood Infrastructure Bond Project Recommendations

Council Worksession - March 14, 2022



Roads, Streets and Bridges (RSB)

[Roads, Streets and Bridges Projects]

- Category Description: Investments in road/street resurfacing, intersection/traffic improvements, bridge replacement and new construction projects

Project Category	Description	Cost Estimate	Timeline
Resurfacing	Citywide Street resurfacing	\$6,000,000	Q2 2022
Road Improvements	Citywide Concrete Medians	\$500,000	Q3 2022
Road Improvements	Citywide Restriping	\$500,000	Q3 2022
Road Improvements	Mohawk/Wade Hampton Improvements	\$900,000	Q2 2023
Bridge Replacement	Williard Street Bridge	\$800,000	Q4 2023
Road Improvements	Pendleton/Vardry/Main Intersection	\$400,000	Q3 2023
Road Improvements	W. Antrim Road Diet	\$450,000	Q1 2023
Road Improvements	PHB Signals	\$900,000	Q4 2022
		\$10,450,000	

- Dallas Road Bridge Project Removed since retreat

[Street Resurfacing (City-wide)]

- Project Description: City will invest in the pavement management program including resurfacing, reclamation, and pavement preservation projects. Approximately 15-20 centerline miles within the City will be addressed.
- Identification Source: 2021 PCI Scores
- Estimated Cost: \$6,000,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2022
- Prioritized Street list and seven-year paving plan will be presented to Council in April/May 2022.



**Average PCI score for City streets in 2021 is 68. This is ten points lower than it was in 2017 (78).

[Concrete Medians (City-wide)]

- Project Description: Install concrete medians at key intersections and roadways within the City limits to promote safety.
- Identification Source: 2015 Intersection Safety Study
- Estimated Cost: \$500,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q3 2022



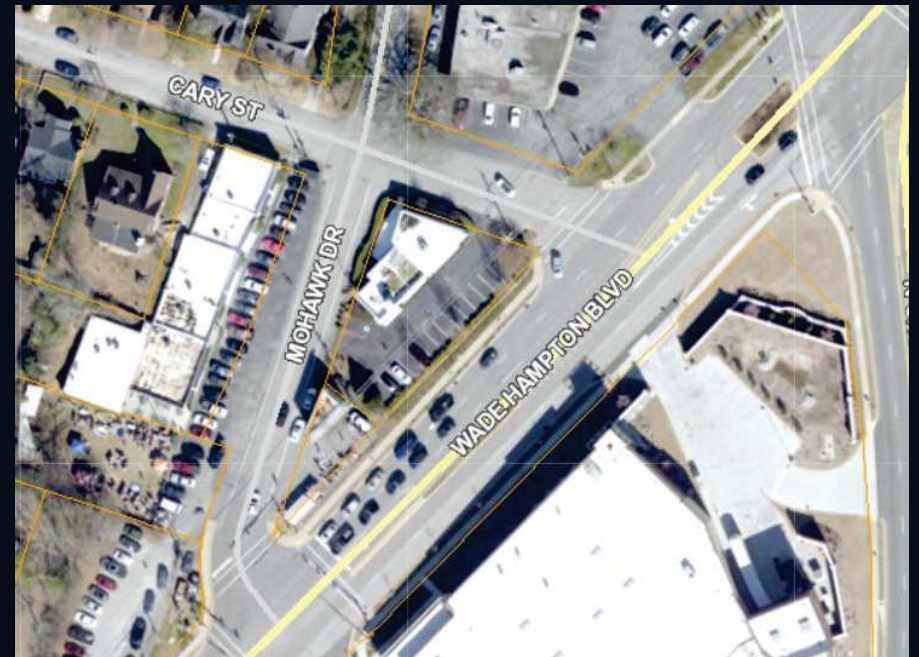
[Street Restriping (City-wide)]

- Project Description: Restriping on various roadways throughout the City limits
- Estimated Cost: \$500,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q3 2022



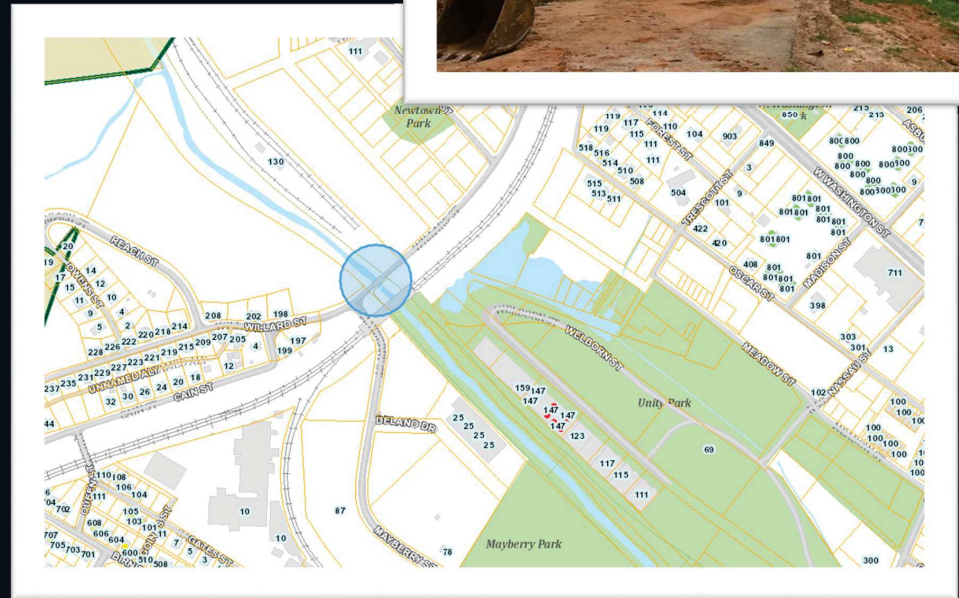
[Mohawk/Wade Hampton Improvements]

- Project Description: Streetscape at Mohawk/Wade Hampton including sidewalks, lighting, and landscaping.
- Identification Source: Wade Hampton Strategic Plan
- Estimated Cost: \$900,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2023



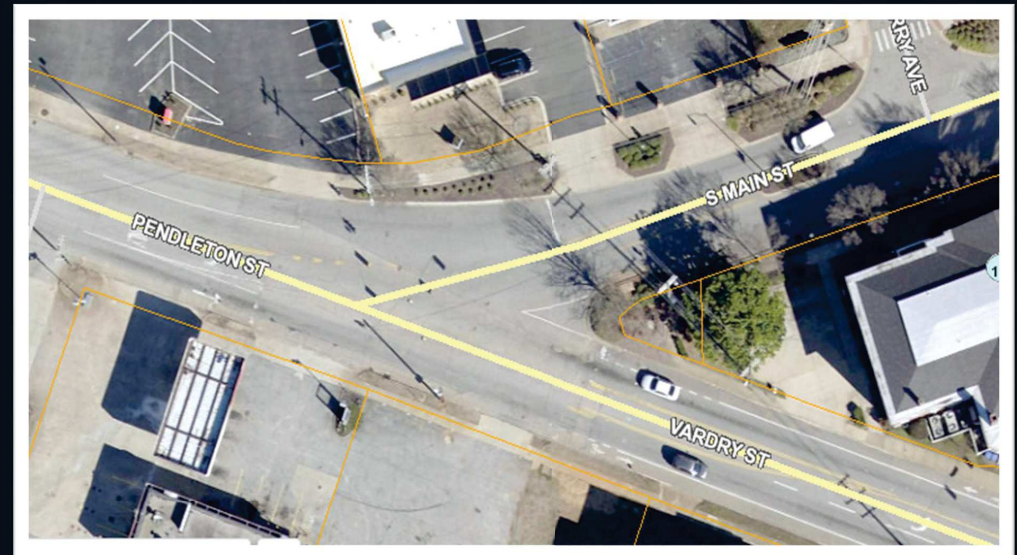
[Willard Street Bridge Replacement]

- Project Description: Replace the bridge on Willard Street and explore the feasibility of relocating the trail crossing under the bridge.
- Identification Source: Bridge Assessments
- Estimated Cost: \$800,000
- ROW Needed (Y/N)?: Yes
- Estimated Timeline to Begin Construction: Q4 2023



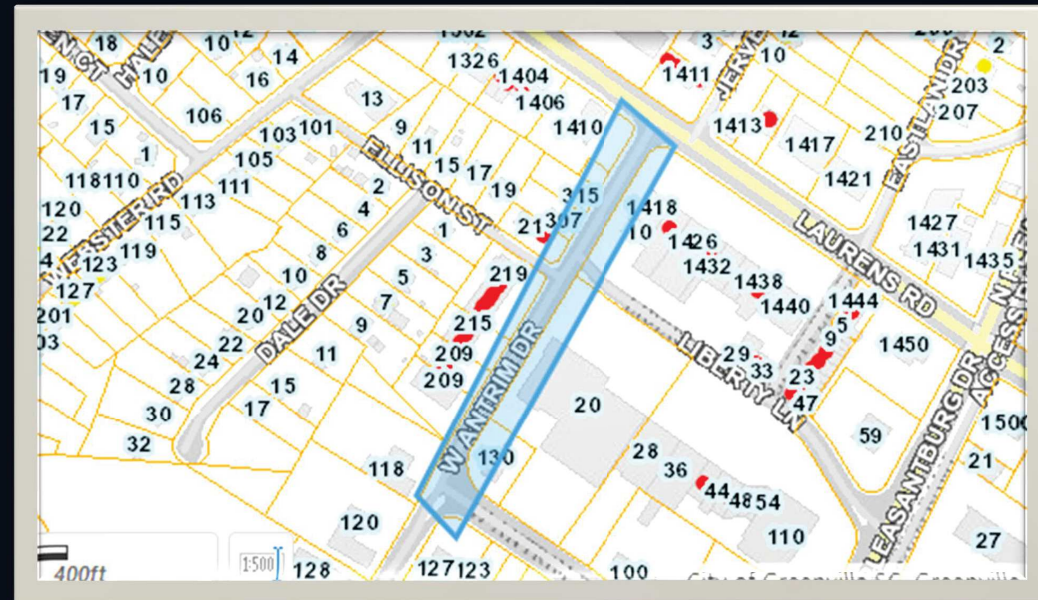
[Pendleton/Vardry/S. Main Intersection Improvements]

- Project Description: Enhance pedestrian safety at the intersection of Pendleton/Vardry/S. Main Street
- Identification Source: Project Request
- Estimated Cost: \$400,000
- ROW Needed (Y/N)?: Yes
- Estimated Timeline to Begin Construction: Q3 2023



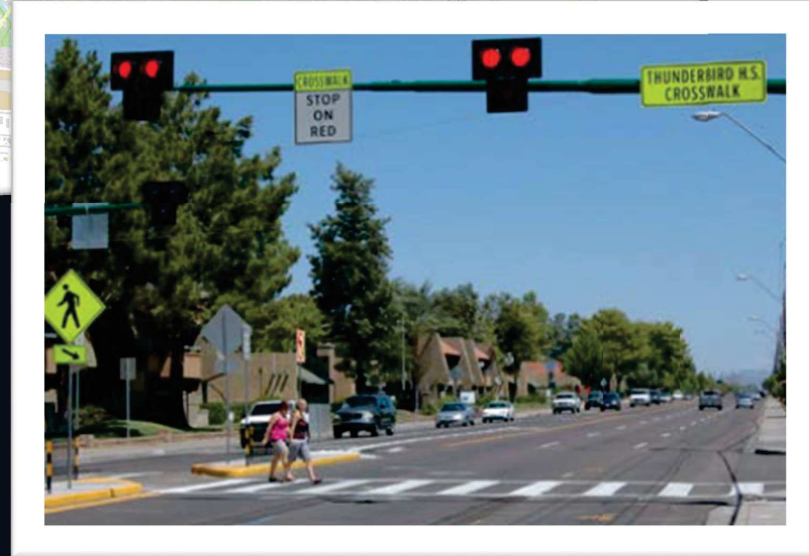
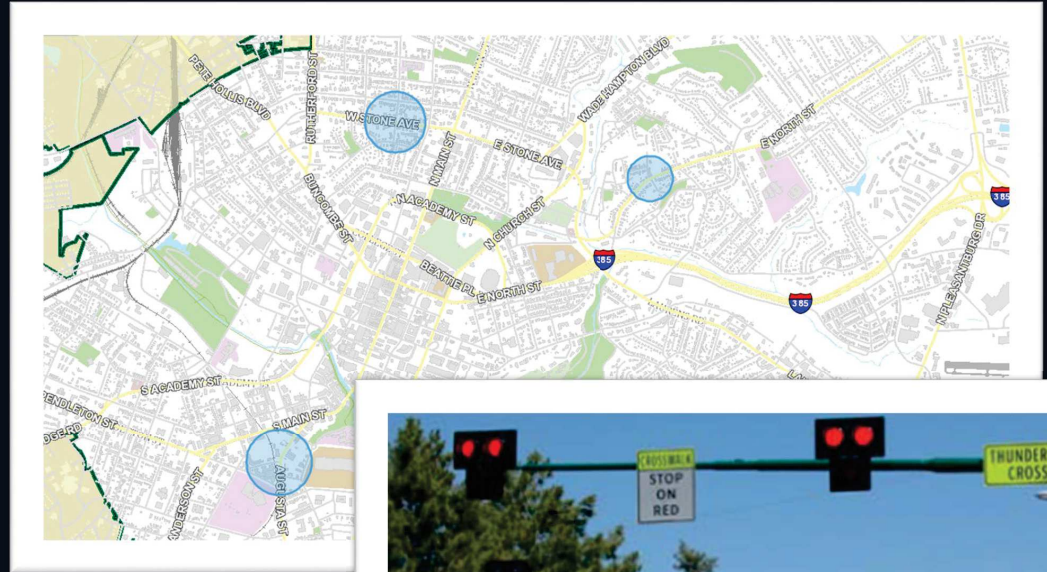
[W. Antrim Road Diet]

- Project Description: Remove one lane of travel and install a sidewalk with a curb lawn along the west side of W. Antrim between Laurens Road and Greenacre.
- Identification Source: Project Request
- Estimated Cost: \$450,000 (Includes \$200k for irrigation/landscaping/lighting)
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q1 2023



[PHB Signal Installation]

- Project Description: Pedestrian Hybrid Signal Installations at E.North near Chestnut Street, Stone Avenue near Wilton, and Augusta Street near Field Street.
- Identification Source: Project Request
- Estimated Cost: \$900,000 (\$300,000 each location)
- ROW Needed (Y/N)? : Yes
- Estimated Timeline to Begin Construction: Q4 2022





Traffic Management Projects

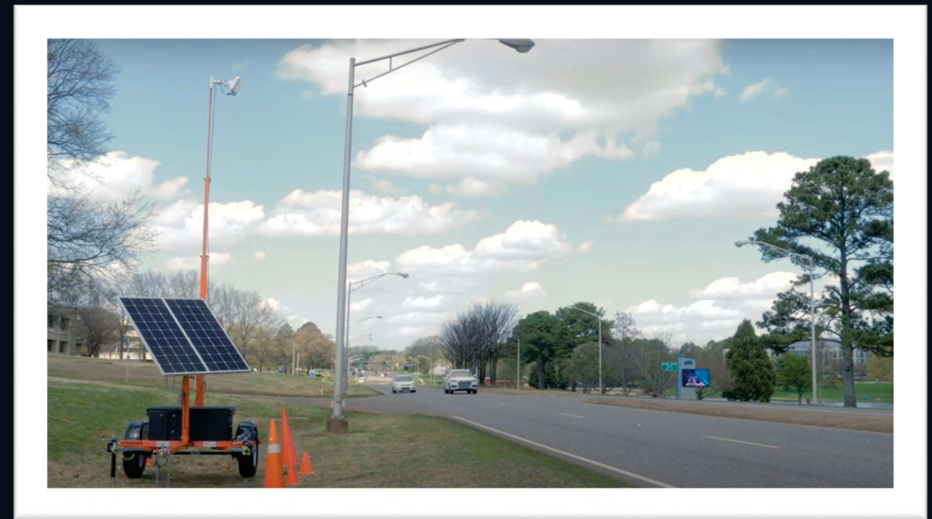
[Traffic Management Projects]

- Category Description: Investments in equipment and technology to better manage traffic throughout the City

Project Category	Description	Cost Estimate	Timeline
Equipment	Traffic Count Stations	\$250,000	Q3 2022
Equipment	Video Monitoring Cameras	\$200,000	Q2 2022
Technology	Travel Time Monitoring	\$500,000	Q2 2022
Equipment	Signal Detection	\$200,000	Q2 2022
Plan/Design	ITS Master Plan	\$150,000	Q4 2022
Technology	Emergency Signal Preemption	\$1,200,000	Q3 2022
Equipment	Uninterruptible Power Supply	\$1,500,000	Q2 2022
Total		\$4,000,000	

[Citywide Traffic Count Stations]

- Project Description: Permanent counters for 2 lane residential collectors, 2 mobile units for static collection, and supplemental static collection from a consultant.
- Identification Source: Project Request
- Estimated Cost: \$250,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q3 2022



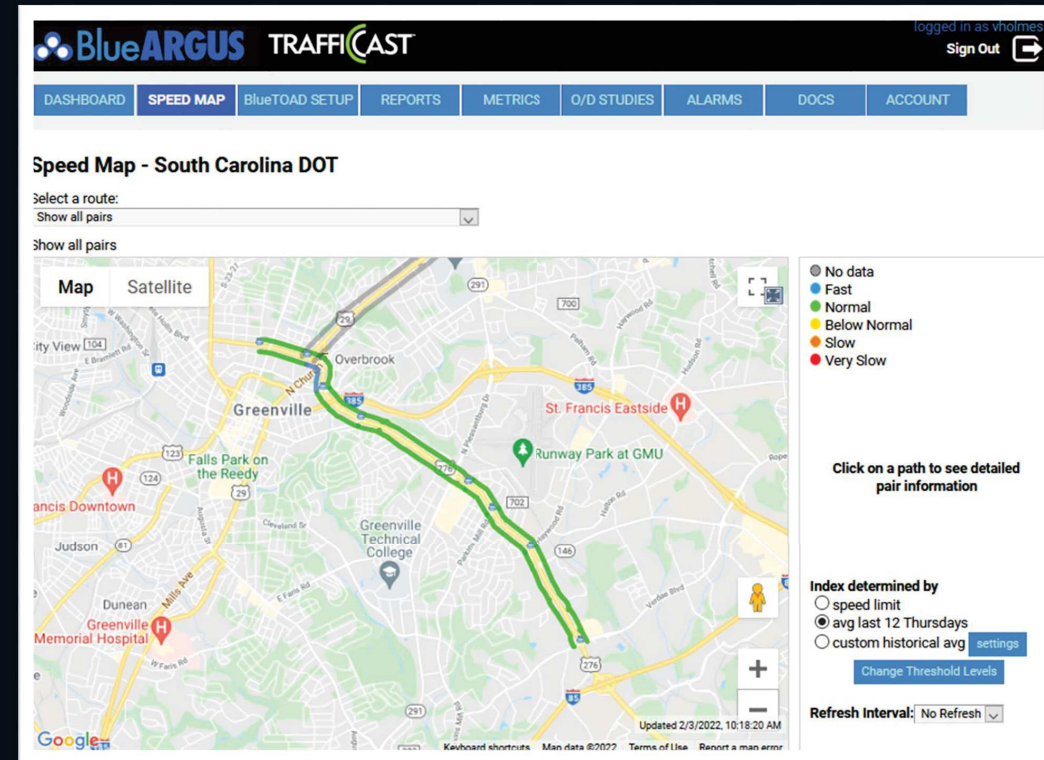
[Citywide Video Monitoring Cameras]

- Project Description: Install video cameras at about 20 signalized intersections that are equipped with communications
- Identification Source: Project Request
- Estimated Cost: \$200,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2022



[Citywide Travel Time Monitoring]

- Project Description: Install 100 BlueToad devices along major corridors to identify areas that would benefit from improved signal operations
- Identification Source: Project Request
- Estimated Cost: \$500,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2022



[Citywide Signal Detection]

- Project Description: Install video detection cameras at intersections enabled with communications to enhance the City's ability to implement adaptive timings
- Identification Source: Project Request
- Estimated Cost: \$200,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q4 2022



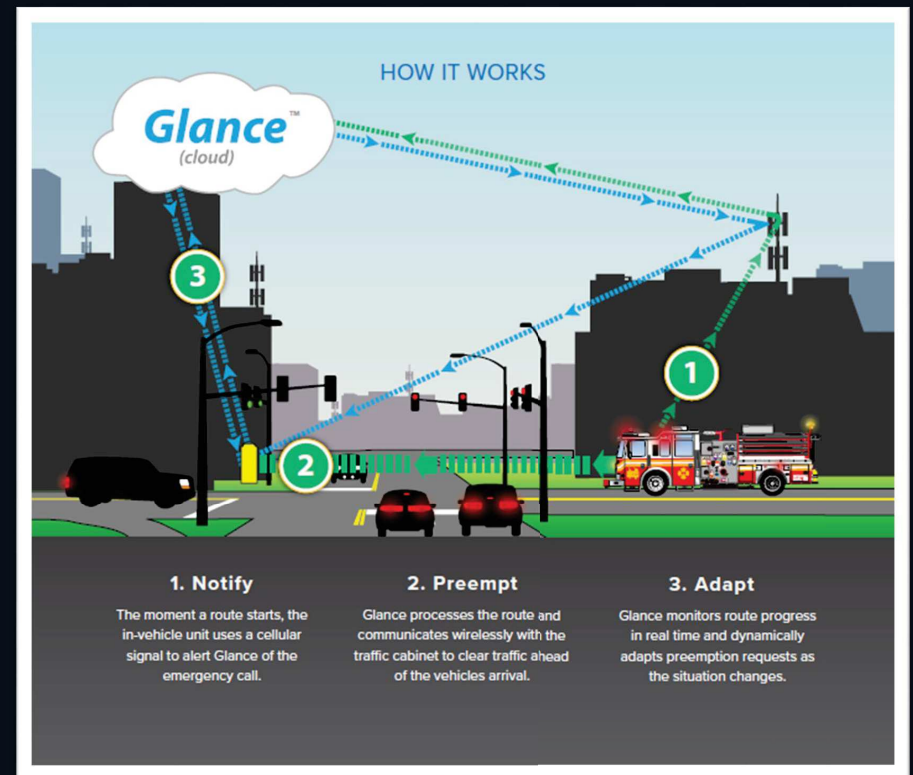
[ITS Master Plan]

- Project Description: ITS Master Plan to guide implementation of smart infrastructure and the design and construction of a city Traffic Management Center
- Identification Source: Project Request
- Estimated Cost: \$150,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q4 2022



[Emergency Signal Preemption]

- Project Description: Equip all signal cabinets with emergency preemption units
- Identification Source: Project Request
- Estimated Cost: \$1,200,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q3 2022



[Uninterruptible Power Supply]

- Project Description: Contract to furnish and install signal cabinets with uninterruptible power supply units
- Identification Source: Project Request
- Estimated Cost: \$1,500,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2022





Sidewalk Projects

[Sidewalk Projects]

- Project Description: Sidewalk project on various City streets.
- Identification Source: Sidewalk Rankings/Project Request
- Estimated Cost: \$8,700,000 (includes \$2m from FY23/FY24 NSTEP)
- ROW Needed (Y/N)?: Yes
- Estimated Timeline to Begin Construction: Q3 2022

Street	Cross Streets	Total Cost	Timeline
LONG HILL STREET	RICE STREET TO END	\$448,800.00	Q3 2022
POTOMAC AVENUE	PANAMA AVENUE TO PRINCE AVENUE	\$785,400.00	Q3 2022
DOE STREET	ENDEL STREET TO EXISTING SIDEWALK	\$93,500.00	Q3 2022
CHICK SPRINGS RD	LOTUS COURT TO MOHAWK DRIVE	\$690,030.00	Q2 2023
MOHAWK DR	CHICK SPRINGS TO WADE HAMPTON	\$645,150.00	Q2 2023
GALLIVAN STREET	MOHAWK DRIVE TO PARKWOOD DRIVE	\$112,200.00	Q2 2023
ALGONQUIN TRAIL	NORTH SIDE BETWEEN 10 AND 18	\$136,510.00	Q2 2023
HENDERSON ROAD	LAURENS ROAD TO ANNACEY PLACE, HIGHCROFT COURT SUBDIVISION TO WEMBLEY ROAD	\$867,680.00	Q2 2023
WEMBLEY ROAD	HENDERSON ROAD TO SHELBURNE ROAD	\$570,350.00	Q3 2023
KEITH DR	PERRIN STREET TO LOWNDES HILL, WOODLARK TO PLEASANTBURG	\$1,368,840.00	Q3 2023
LOWNDES HILL RD/OVERBROOK RD	E NORTH STREET TO KEITH DRIVE	\$1,858,780.00	Q3 2023
WEBSTER RD.	WARREN CT TO ALLENDALE LN	\$1,122,000.00	Q3 2023



Parks and Community Center Projects

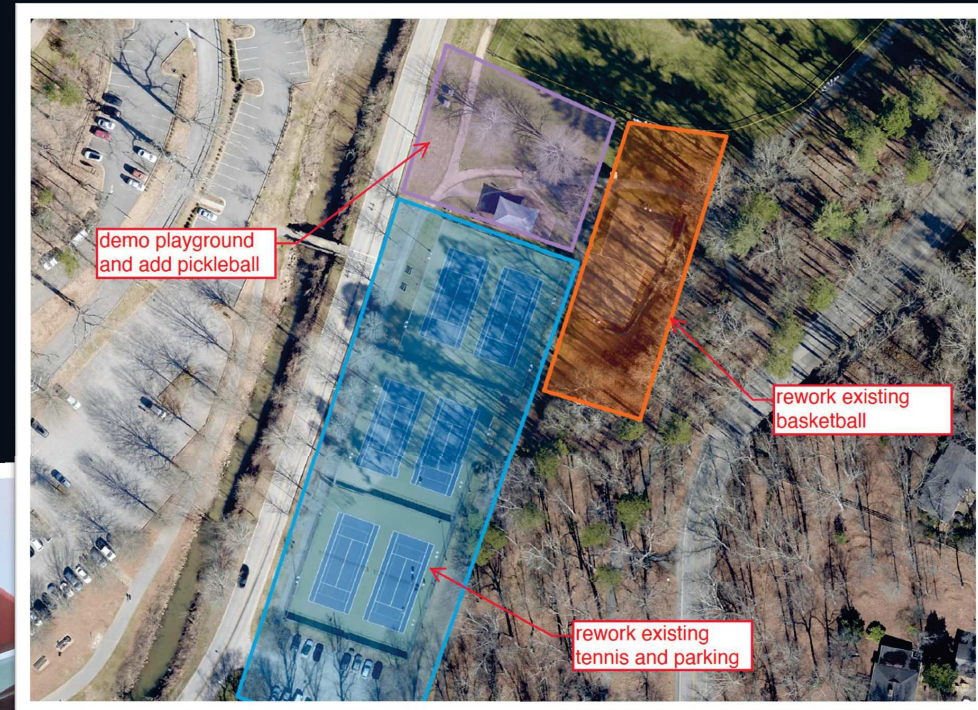
[Proposed Projects]

Cleveland	Court Reconstruction	\$1,300,000	reconstruct courts and add pickleball
David Hellams	Court Reconstruction	\$90,000	resurface court
Gower Park			
	Court Reconstruction	\$700,000	reconstruct courts and add pickleball
	Parking Lot Renovation	\$250,000	reconstruct parking lot (LWCF grant)
Holmes Park			
	Court Reconstruction	\$85,000	
	Parking Lot Renovation	\$250,000	reconstruct parking lot
	Park Shelter Replacement	\$25,000	replace with aluminum shelter
McPherson Park			
	Court Reconstruction	\$100,000	tennis only
Newtown Park			
	Court Reconstruction	\$25,000	basketball court
Nicholtown	Center Renovation	\$1,800,000	reconstruction on current footprint
	Add Walking Track	\$15,000	to be installed behind basketball court
	Replace Park Shelter	\$25,000	replace with aluminum shelter
North Main Rotary Park			
	Field Improvements	\$150,000	renovate field, improve stormwater drainage
Pinckney Fludd Park			
	Court Reconstruction	\$25,000	basketball court

- Cleveland Park Playground and Parking Improvements removed since retreat

[Cleveland Park Improvements]

- Project Description: rehabilitate the courts to add dedicated pickleball and improve efficiency,
- Estimated Cost: \$1,300,000
- Estimated Timeline to Begin Design: Q3 2022



[David Hellams Basketball Court Rehabilitation]

- Project Description: renovate existing covered basketball court, improve drainage, resurface, new equipment / hardware
- Estimated Cost: \$90,000
- Estimated Timeline to Begin Construction: Q3 2023



[Gower Park Court / Parking Lot Improvements]

- Project Description: rehabilitate the courts to add dedicated pickleball and improve efficiency of space, new parking lot with landscaping
- Estimated Cost: \$1,500,000
- Estimated Timeline to Begin Construction: Q3 2022
- Suggested Fund: NIB and LWCF Grant (application in progress, due March 1)



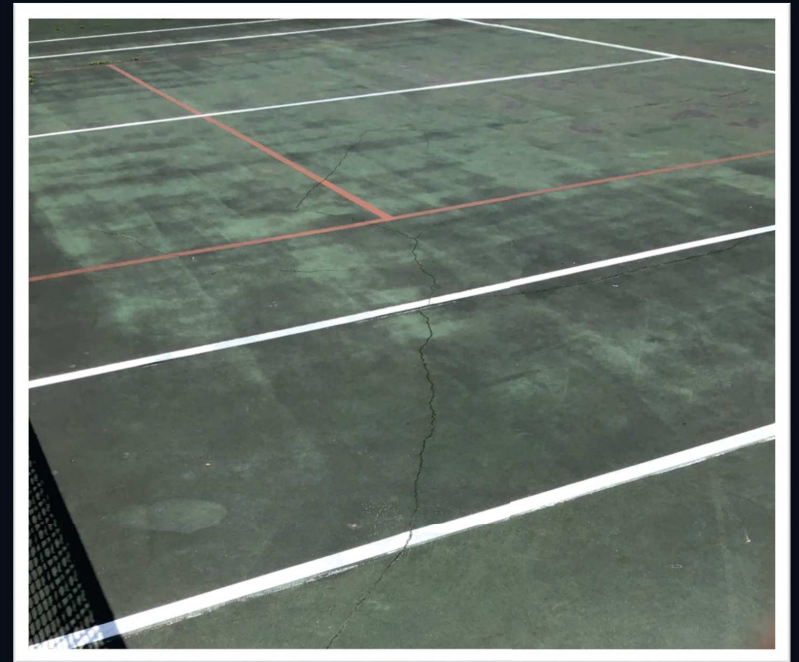
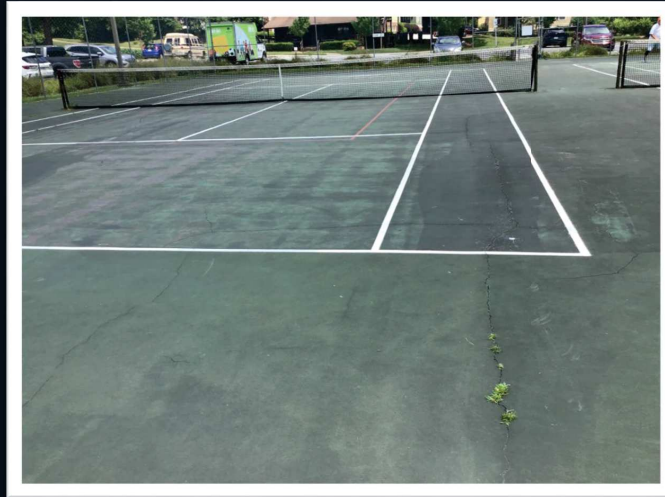
[Holmes Park Improvements]

- Project Description: rehabilitate the tennis courts, new parking lot with landscaping, new park shelter
- Estimated Cost: \$360,000
- Estimated Timeline to Begin Construction: Q2 2022



[McPherson Park Improvements]

- Project Description: rehabilitate the tennis courts, replace tennis court fencing
- Estimated Cost: \$100,000
- Estimated Timeline to Begin Construction: Q2 2022



[Newtown Park Improvements]

- Project Description: rehabilitate the basketball court
- Estimated Cost: \$25,000
- Estimated Timeline to Begin Construction: Q2 2022



[Nicholtown Community Center Improvements]

- Project Description: complete facility renovation, to include new basketball court, updated facility, addition of walking track, new park shelter, improved drainage
- Estimated Cost: \$1.8 million
- Estimated Timeline to Begin Construction: Q2 2023 – following feasibility study



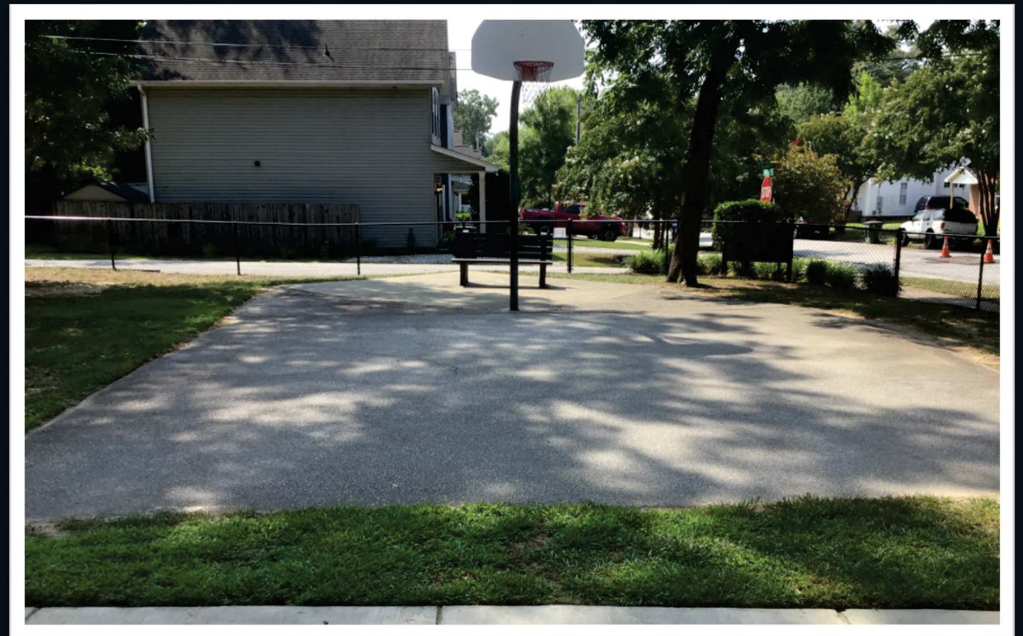
[North Main Ballfield Improvements]

- Project Description: rehabilitate the multi-use ballfield, improve drainage
- Estimated Cost: \$150,000
- Estimated Timeline to Begin Construction: Q1 2023



[Pinckney Fludd Court Improvements]

- Project Description: rehabilitate the basketball court, repave ADA pathways
- Estimated Cost: \$25,000
- Estimated Timeline to Begin Construction: Q1 2023





Summary

[Summary of Projects and Capacity]

- Approximately \$36,000,000 in bonds will be issued in 2 tranches (FY22 and FY24)
- Pre-Authorized Projects:
 - C-Fund Resurfacing Match - \$3 million
 - Public Safety Campus – TMC - \$4 million
 - Augusta Street Safety Improvements - \$250 thousand
 - Cleveland Park and Gower Park Court Improvement Design – \$40 thousand
- Available Capacity - \$28,710,000

Project Category	Cost of Recommended Projects
Roads, Streets, Bridges	\$10,450,000 (\$600k less than retreat)
Traffic Management	\$4,000,000
Sidewalks	\$6,699,240
Parks and Community Centers	\$4,840,000 (\$2.0m less than retreat)
Contingency/Project Management	\$2,720,760 (8.3%) – not included at retreat
Total Project List	\$28,710,000



Discussion